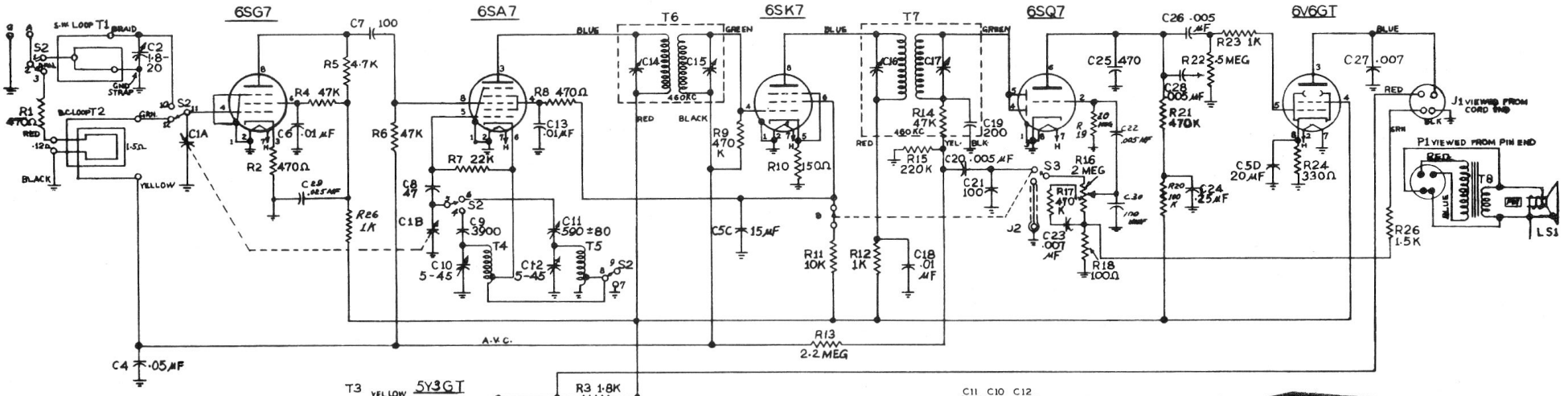


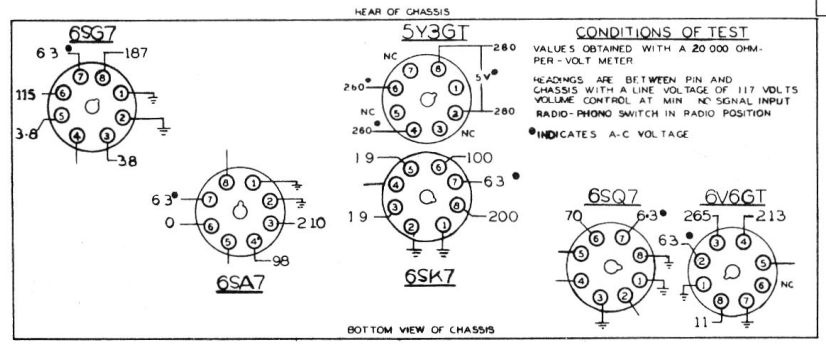


Fig. 2 Socket Voltages

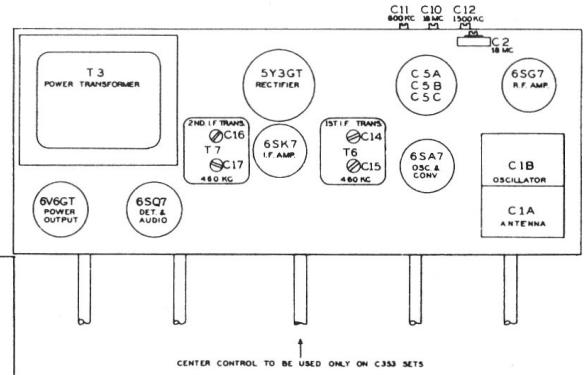
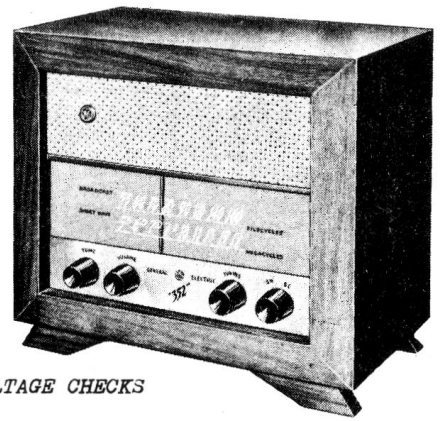


Fig. 3 Tube and Trimmer Location



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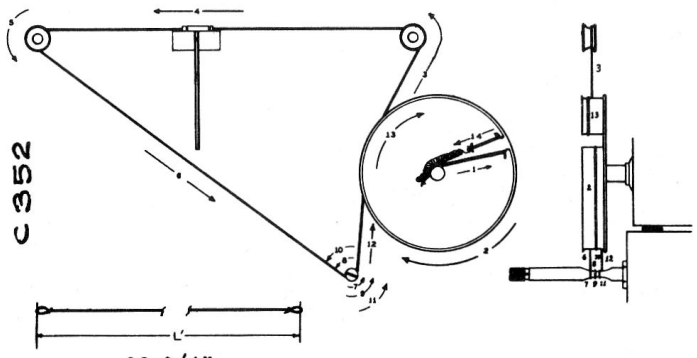
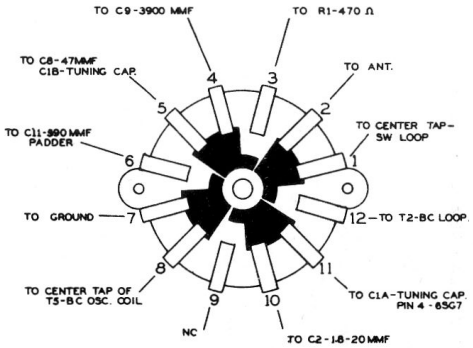


Fig. 4 Dial Stringing



VIEWED FROM INSIDE OF CHASSIS
BAND SWITCH S2 IN S.W. POSITION

Fig. 5 Band Switch

STAGE GAIN AND VOLTAGE CHECKS

Stage gain measurements may be made with a vacuum tube voltmeter to check circuit performance and to locate stages which are not operating properly. The gain values listed may have a tolerance of 20%. Readings should be taken with the AVC shorted out. This may be done conveniently by connecting the yellow beam-a-scope lead to ground.

1. R-F STAGE GAINS

Antenna to 6SG7 Grid ..... 7 at 1000 kc.
6SG7 grid to 6SA7 grid ..... 2.5 at 1000 kc.
6SA7 grid to 6SK7 grid ..... 60 at 460 kc.

2. AUDIO GAIN

The power output across the speaker voice coil should be approximately 1/2 watt with 0.05 volts at 400 cps. applied between the high side of the volume control and ground.

3. OSCILLATOR GRID BIAS

The D.C. voltage developed across the oscillator grid leak R7 averages 9.5 volts at 1000 kc.

4. SOCKET PIN VOLTAGES

Fig. 2 shows typical tube pin voltages. All readings should be made from the pins to ground unless otherwise indicated.

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SPECIFICATIONS

CABINET

Material (Walnut or Oak) ..... Wood
Height ..... 14 1/4 inches
Width ..... 15 1/2 inches
Depth ..... 9 5/8 inches

ELECTRICAL RATING (INPUT)

Voltage ..... 105-125 Volts A.C. only
Frequency (See Name plate rating) 60 c.p.s. and 25 c.p.s.
Wattage ..... 60 Watts

OPERATING FREQUENCIES

Broadcast Band ..... 540-1600 kc.
Short Wave Band ..... 5.5-18 mc.
I.F. Amplifier ..... 460 kc.

POWER OUTPUT (117 VOLTS LINE)

Undistorted ..... 3 W.
Maximum ..... 6 W.

LOUDSPEAKER

Type ..... Alnico V P.M. Dynamic
Outside Cone Diameter ..... 6 1/2 inches
Voice Coil Impedance (400 c.p.s.) ..... 3.2 ohms

TUBE COMPLEMENT

R.F. Amplifier 6SG7
Converter Oscillator 6SA7
I.F. Amplifier 6SK7
2nd Detector, A.V.C. and 1st Audio 6SQ7
Output 6V6GT/G
Rectifier 5Y3GT
Pilot Lamps (2) ..... Mazda 44

ELECTRICAL CIRCUIT ALIGNMENT

EQUIPMENT REQUIRED

1. Test oscillator with audio tone modulation.
2. A.C. output meter 1 1/2 volts full scale.
3. Insulated screwdriver.
4. 0.05 mfd. capacitor.
5. Radiation loop.

ALIGNMENT PROCEDURE

NOTE:- With the gang condenser fully meshed the dial pointer should coincide with the extreme left end of the horizontal calibration line.

The alignment procedure is given in the table form. The i.f. transformers may be adjusted with the chassis removed from the cabinet. Since the relative position of the loop antenna with the respect to the chassis may materially affect the alignment all r.f. adjustments should be made with the chassis in the cabinet and the loop securely fastened in place. All oscillator and r.f. trimmers are accessible from the rear of the cabinet when the chassis and loop are installed; the location of these trimmers is shown in Fig. (3)

When making r.f. adjustments the oscillator signal should be coupled to the receiver loop by means of a radiation loop connected to the test oscillator and located two to three feet from the receiver loop. Metal objects such as meters and tools should not be placed on top of the receiver cabinet.

The output meter should be connected across the voice coil of the loudspeaker. The low side of the test oscillator should be connected to the chassis ground; the high side of the test oscillator output should be connected as indicated in the alignment chart. During the entire alignment procedure, the receiver volume control should be set at its maximum position. The test oscillator output signal should be attenuated to as low a point as possible to give a readable indication on the output meter.

ALIGNMENT CHART

Step	Connect Test Oscillator Low to Chassis High to	Test Oscillator Setting	Radio Setting	Adjust For Maximum Output
1.	6SK7, pin 4 in series with 0.05 mfd.	460 KC	"B.C." Band Gang full mesh	C17 C16 2nd IF trimmers
2.	6SA7 pin 8 in series with 0.05 mfd.	460 KC	"B.C." Band Gang full mesh	C15 C14 1st IF trimmers.
3.	Repeat	Step	2	C17, C16, C15, C14 2nd & 1st IF trimmers.
4.	*Radiation Loop	1500 KC	"B.C." Band 1500 KC	C12 Oscillator
5.	*Radiation Loop	600 KC	"B.C." Band 600 KC	**C11 Oscillator
6.	*Radiation Loop	1500 KC	"B.C." Band 1500 KC	**C12 Oscillator
7.	*Radiation Loop	18 MC.	"S.W." Band 18 MC	***C10 Oscillator (to signal)
8.	*Radiation Loop	18 MC.	"S.W." Band 18 MC	****C2 Antenna.

* Connect high and low sides of test oscillator to radiation loop consisting of two turns of #18 wire wound into a loop approximately 18 inches in diameter. Locate radiation loop 2 to 4 feet from receiver loop using care to maintain same relative position between receiver loop and radiation loop during alignment.

** Rock gang while adjusting.

*** Use minimum capacity peak.

**** Final adjustment should be made with loop and chassis installed in cabinet.

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